

Fig. 1 Anti-PT Results

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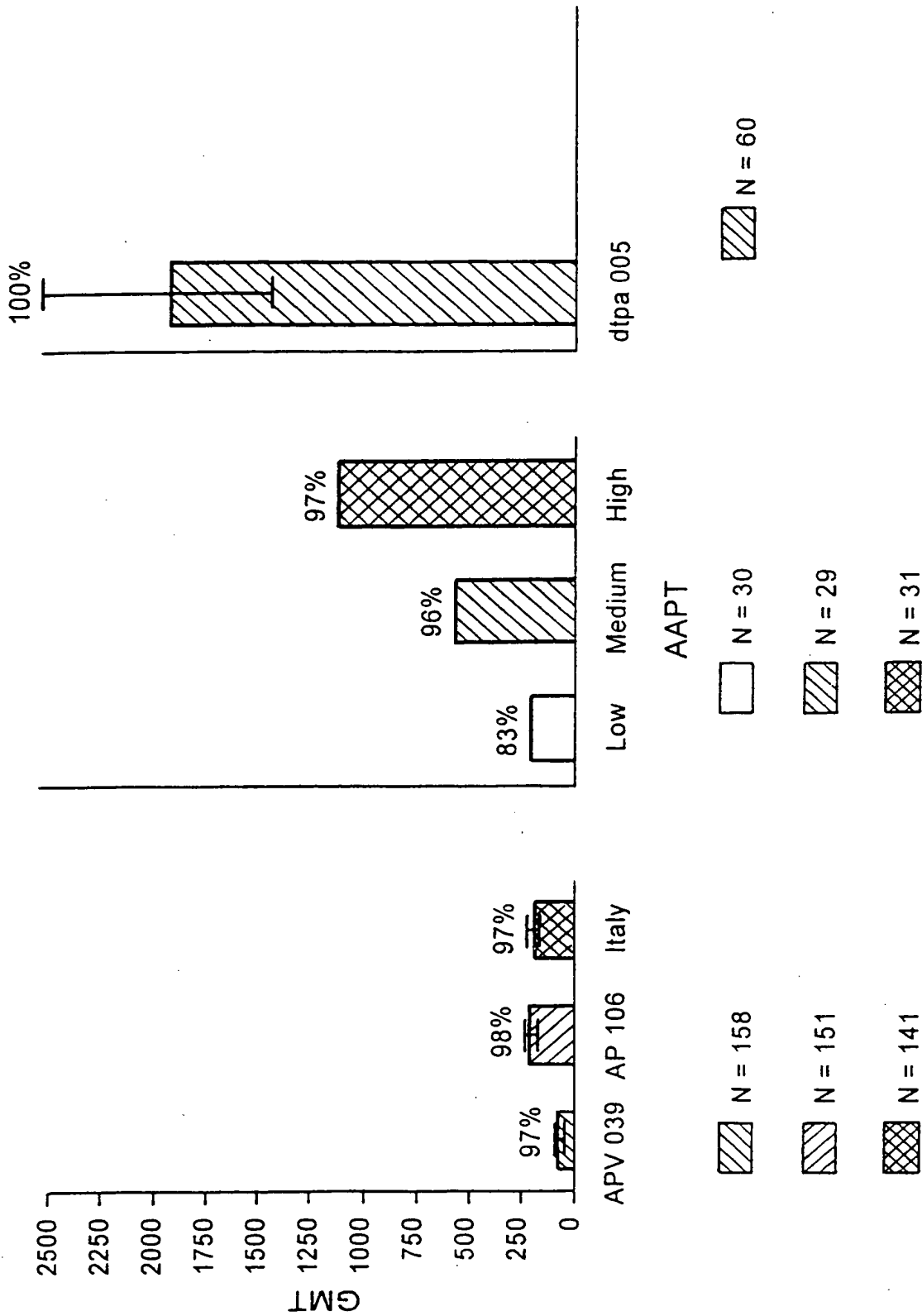


Fig. 2 Anti-FHA Results

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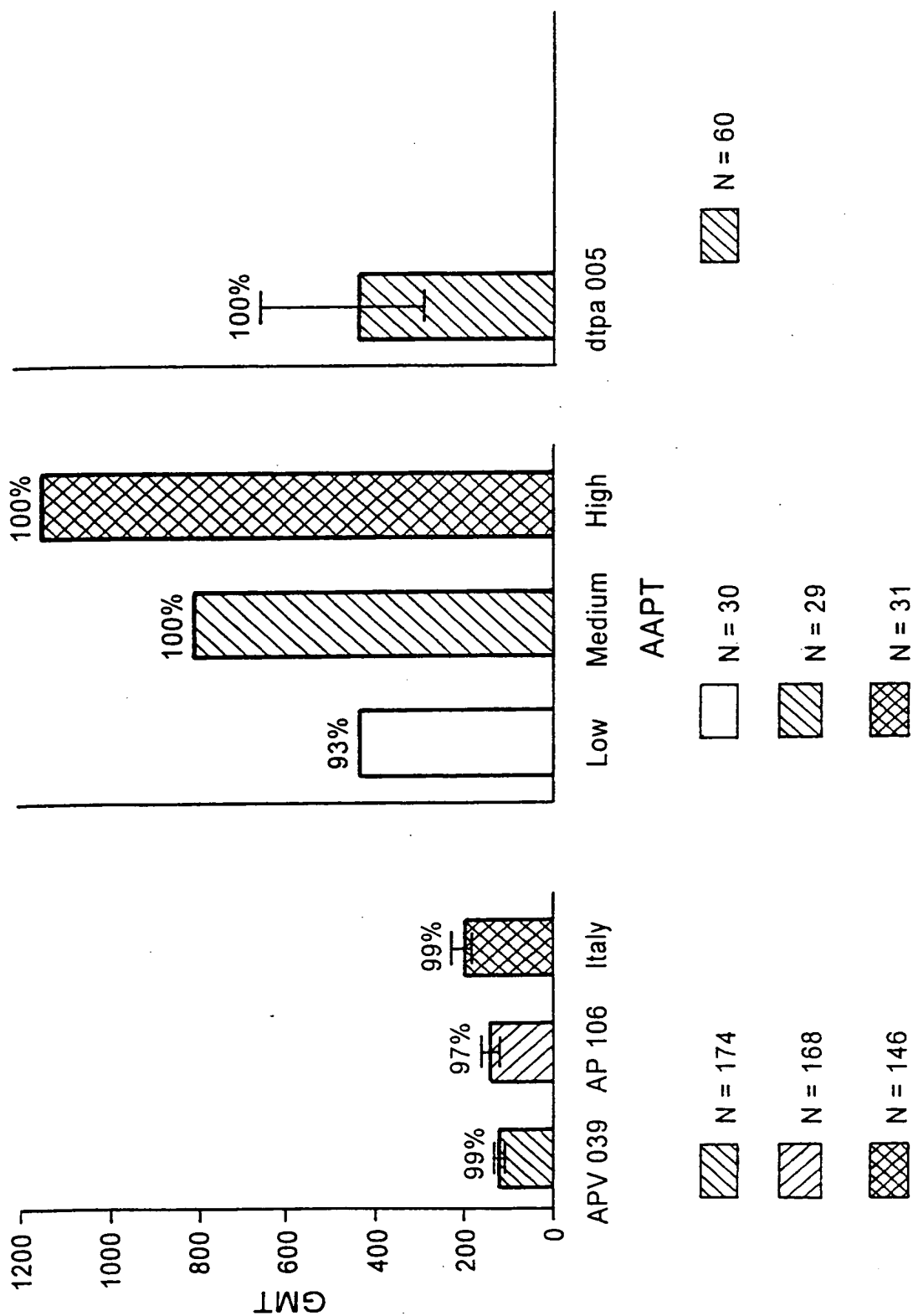


Fig. 3 Anti-PRN Results

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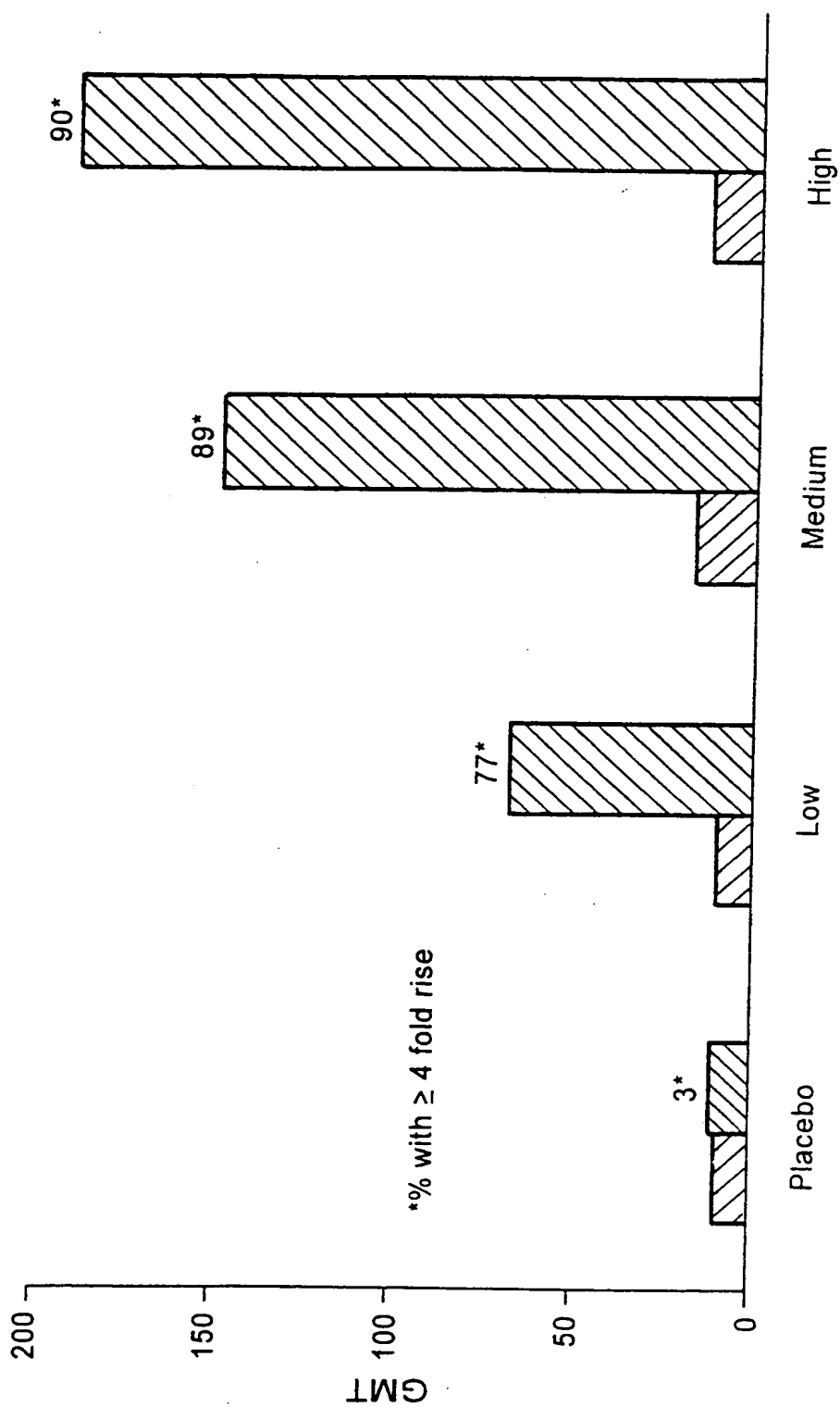


Fig.4 Anti-PT Results
Pre- and Post-Serum Antibody Responses Following Immunization
With SB "Monovalent" Pa - AAPT, 1996

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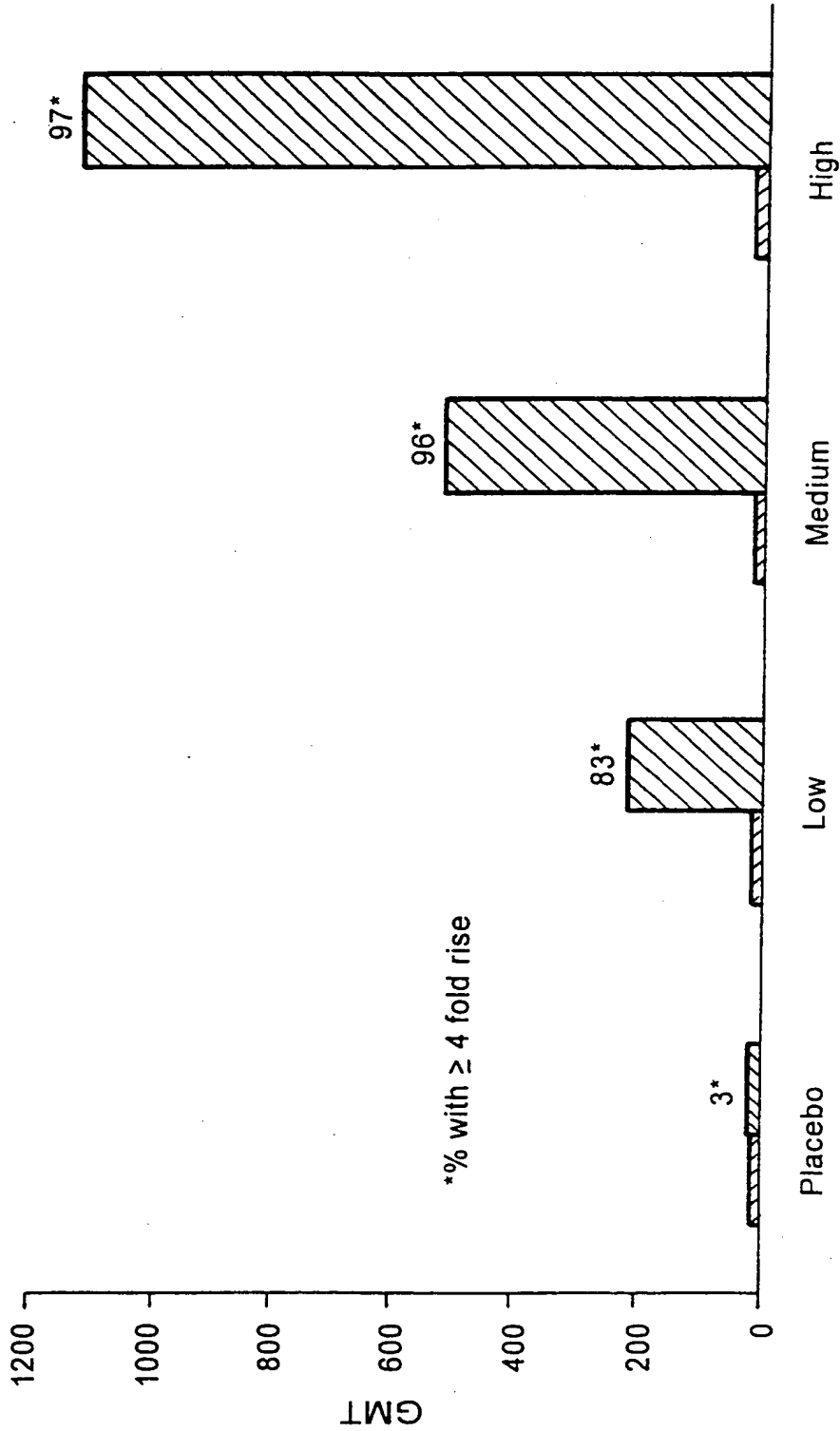


Fig. 5 Anti-FHA Results
Pre-and Post-Serum Antibody Responses (Cont.) AAPT, 1996

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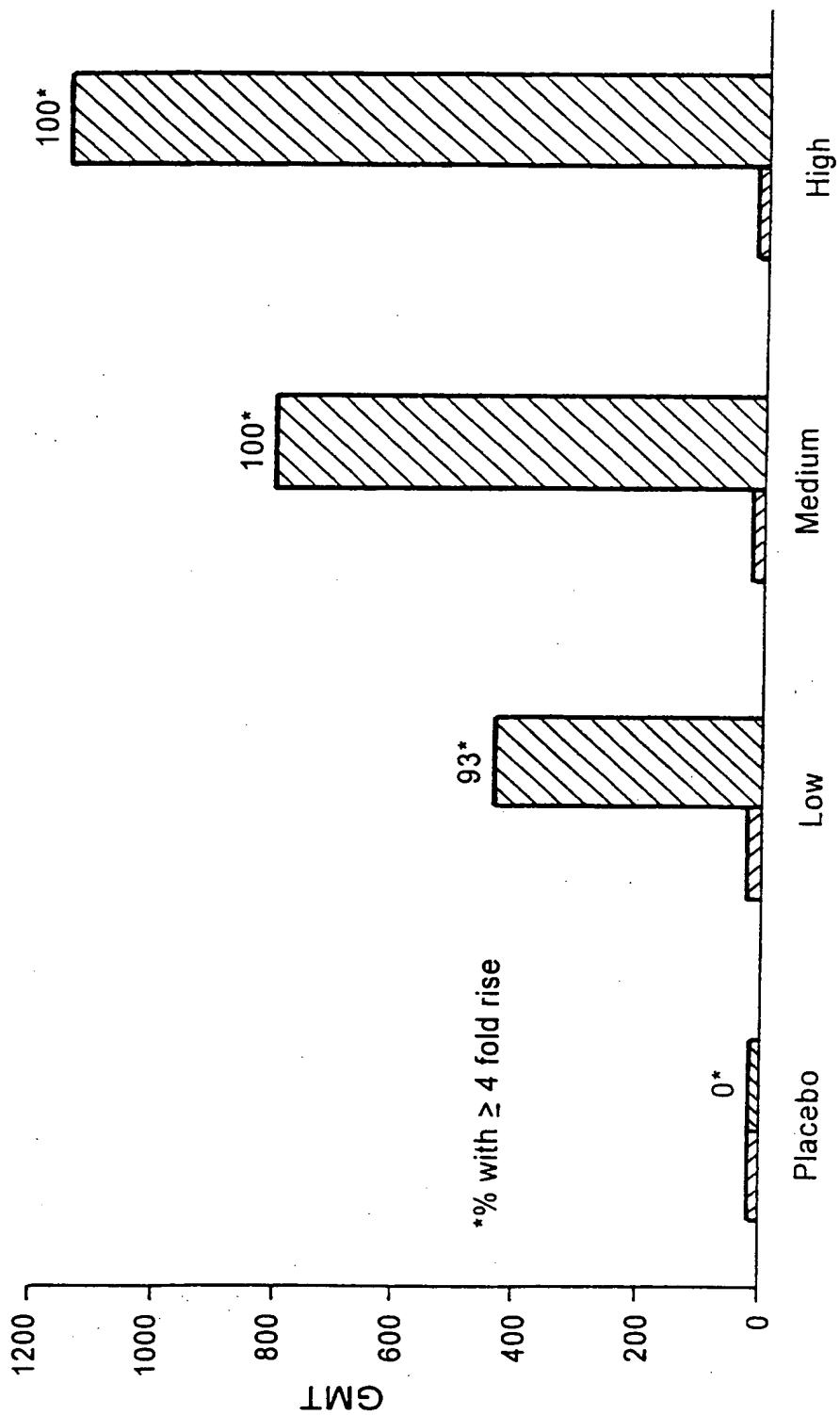


Fig. 6 Anti-PRN Results
Pre-and Post-Serum Antibody Responses (Cont.) AAPT, 1996

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| Pain | dtpa | dT |
|-----------------|-------------|-----------|
| ≤ 48 h | 58 | 60 |
| 15 days | 60 | 60 |
| Severe | 0 | 0 |
| Redness | | |
| ≤ 48 h | 30 | 37 |
| 15 days | 30 | 37 |
| > 20 MM | 17 | 20 |
| Swelling | | |
| ≤ 48 h | 30 | 37 |
| 15 days | 30 | 37 |
| > 20MM | 5 | 8.3 |
| Fever | | |
| ≤ 48 h | 7 | 7 |
| 15 days | 8 | 8 |
| > 39°C | 0 | 0 |

Fig. 7 % Reporting
dtpa 005 - Reactogenicity

| Anti-D | dtpa | dT |
|---------------|-------------|-----------|
| Pre | | |
| ≥ 0.1 | 44% | 44% |
| Post | | |
| ≥ 0.1 | 80% | 78% |
| GMT | 0.85 | 0.81 |
| Anti-T | | |
| Pre | | |
| ≥ 0.1 | 88% | 88% |
| Post | | |
| ≥ 0.1 | 97% | 100% |
| GMT | 7.37 | 13.6 |

Fig. 8 dtpa 005
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| | Pain Week1 | Moderate Pain Week 1 | Erythema Week 1 | Pain Weeks 2-4 | Erythema Weeks 2-4 |
|-------------------|---------------|----------------------------|--------------------|----------------------|--------------------------|
| SB-Med (N=31) | 90 | 10 | 10 | 17 | 3 |
| Placebo (N=31) | 19 | 3 | 3 | 3 | 0 |

- No serious adverse events
- No severe pain
- 2 subjects with hives (days 1-4; days 18-22)

Fig. 9 % Reporting
AAPT- Reactogenicity

| Pain | dtpa | dT |
|-----------------|------|----|
| ≤ 48 h | 69 | 70 |
| 15 days | 69 | 70 |
| Severe | 0 | 1 |
| Redness | | |
| ≤ 48 h | 12 | 20 |
| 15 days | 12 | 20 |
| > 30 MM | 1 | 9 |
| Swelling | | |
| ≤ 48 h | 12 | 28 |
| 15 days | 13 | 30 |
| > 30MM | 7 | 15 |
| Fever | | |
| ≤ 48 h | 5 | 6 |
| 15 days | 13 | 15 |
| > 39°C | 0 | 1 |

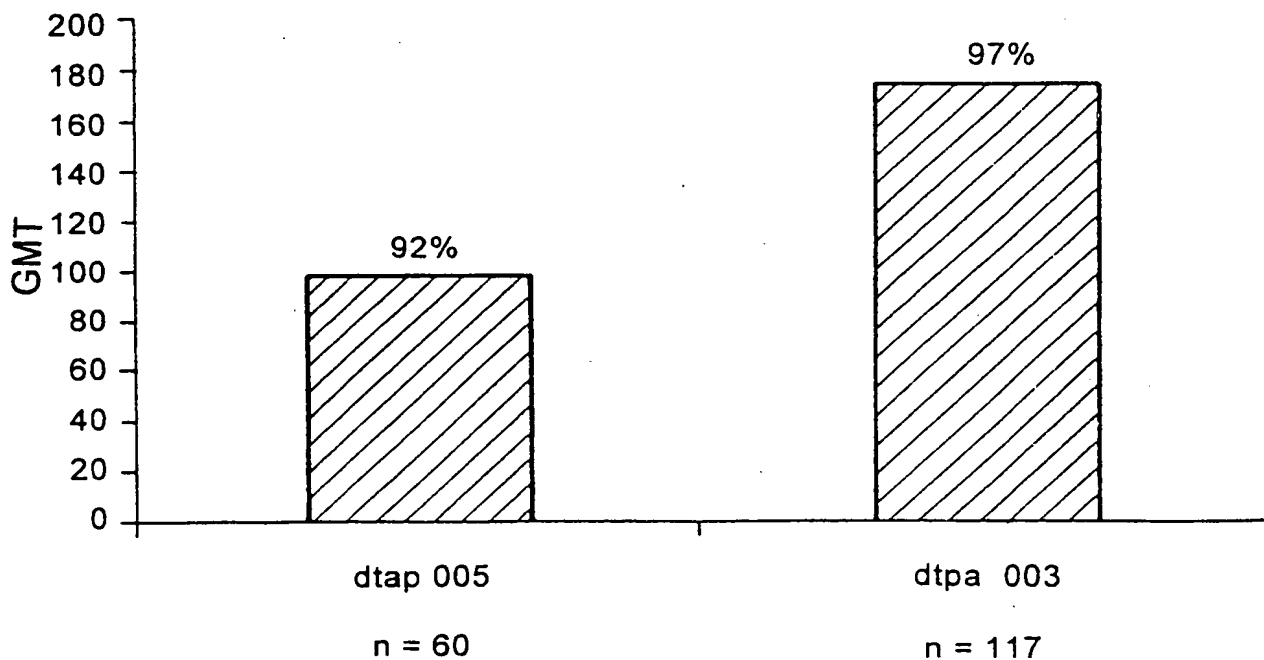
Fig. 10 % Reporting
dtpa 003 - Reactogenicity
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| Anti-D | dtpa | dT |
|------------|------|------|
| Pre | | |
| ≥ 0.1 | 72% | 72% |
| Post | | |
| ≥ 0.1 | 100% | 100% |
| GMT | 3.3 | 10.5 |

| Anti-T | | |
|------------|------|------|
| Pre | | |
| ≥ 0.1 | 94% | 99% |
| Post | | |
| ≥ 0.1 | 100% | 100% |
| GMT | 22.9 | 54.5 |

Fig. 11 Antibody responses dtpa 003**Fig. 12** Anti-PT Results
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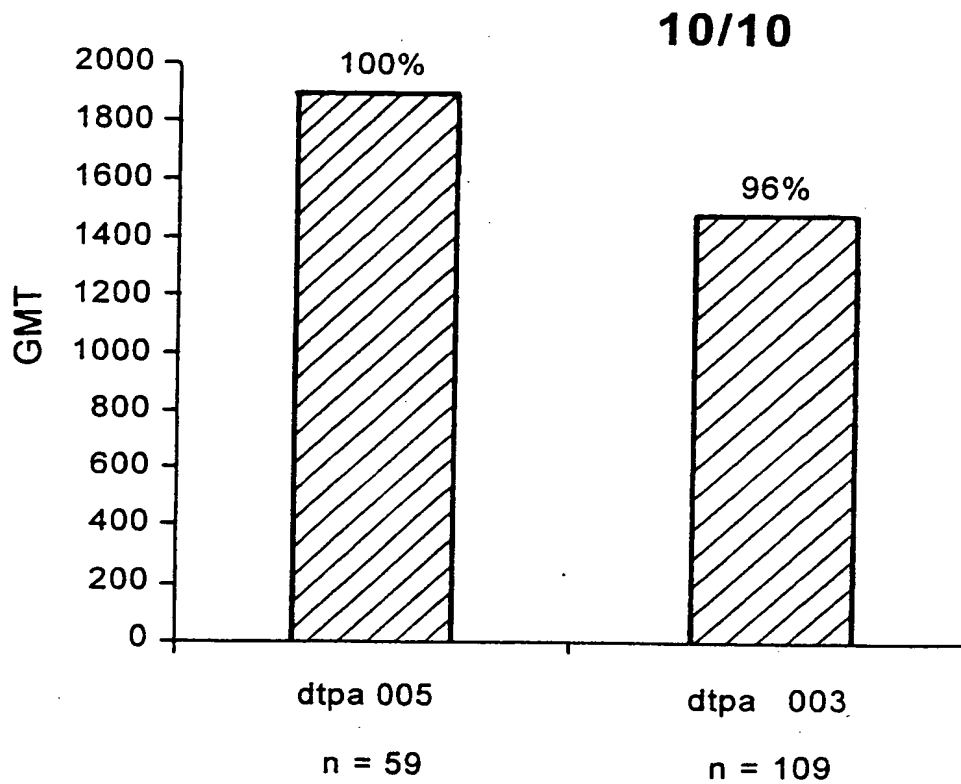


Fig. 13 Anti-FHA Results

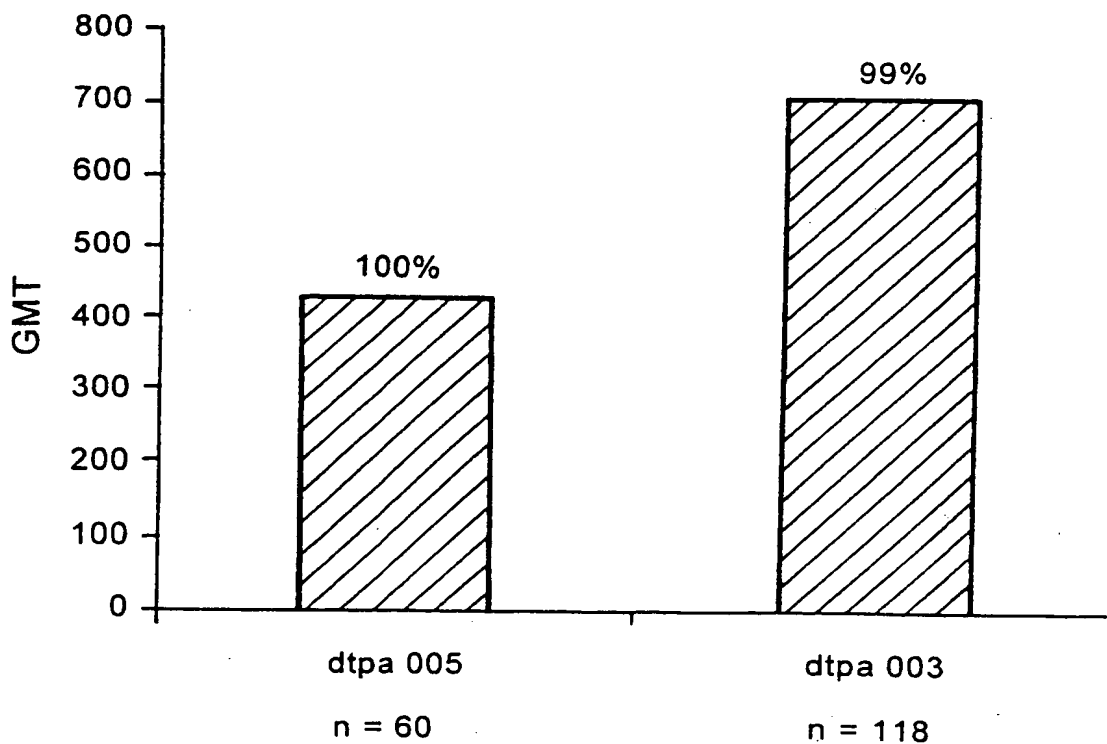


Fig. 14 Anti-PRN Results
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